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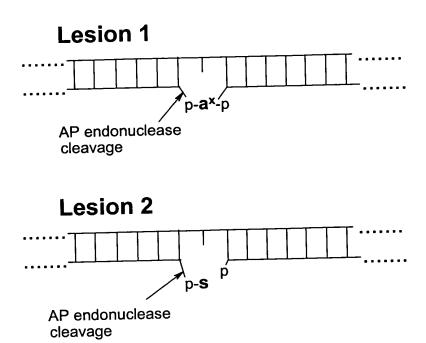


Figure 1

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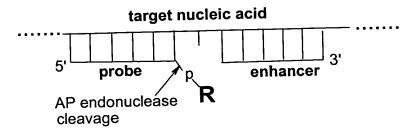


Figure 2

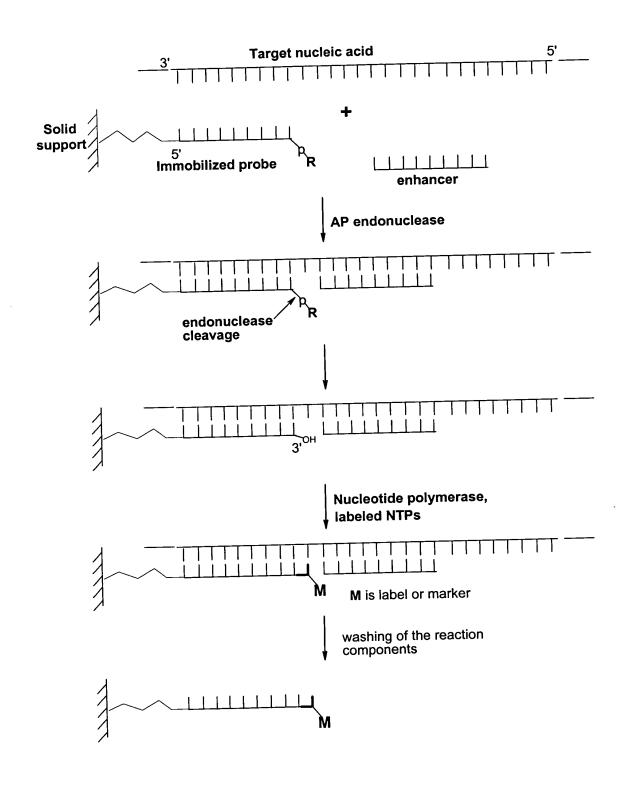


Figure 3

Target nucleic acid AP endonuclease D1 is a fluorescent dye endonuclease cleavage 3'^{OH} D1 Nucleotide polymerase, DX-labeled NTPs

Figure 4

DX DX is a fluorescent dye

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A. 3' target nucleic acid 5'

probe penhancer p 3'

linker

Examples of linkers (covalent binding):

$$(-OCH_2CH_2-)_n$$

 $(-OCH_2CH_2-OPO_2-)_n$
 $-O(CH_2)_nO-$ where n is from 1 to 100

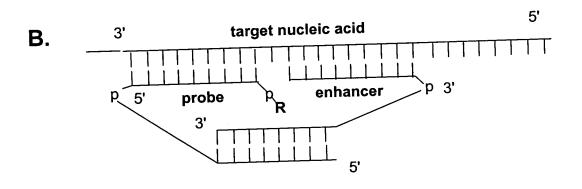


Figure 5

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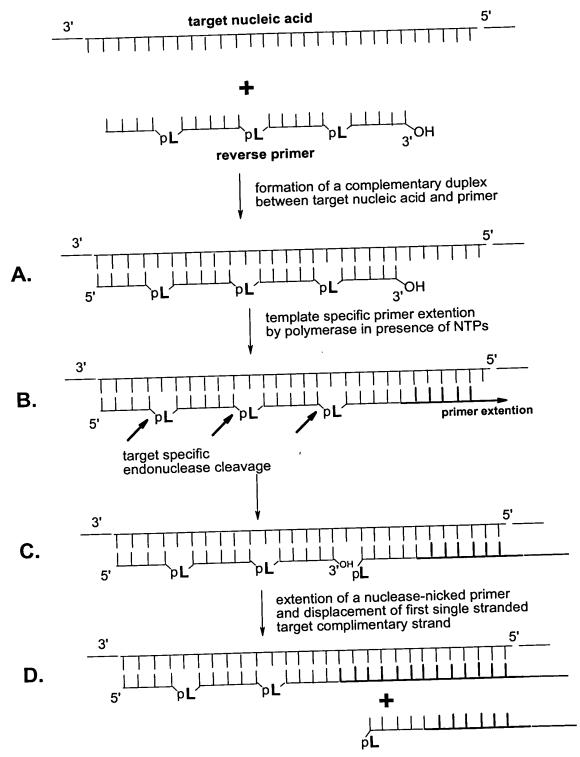


Figure 6

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$$\begin{cases} \zeta_{1} + \zeta_{2} \\ \zeta_{3} + \zeta_{4} \\ \zeta_{5} \\ \zeta_{1} + \zeta_{2} \\ \zeta_{1} + \zeta_{2} \\ \zeta_{2} \\ \zeta_{3} \\ \zeta_{4} \\ \zeta_{5} \\ \zeta_{1} + \zeta_{2} \\ \zeta_{1} \\ \zeta_{2} \\ \zeta_{3} \\ \zeta_{4} \\ \zeta_{5} \\ \zeta_{5} \\ \zeta_{1} \\ \zeta_{1} \\ \zeta_{2} \\ \zeta_{3} \\ \zeta_{5} \\ \zeta_$$

7

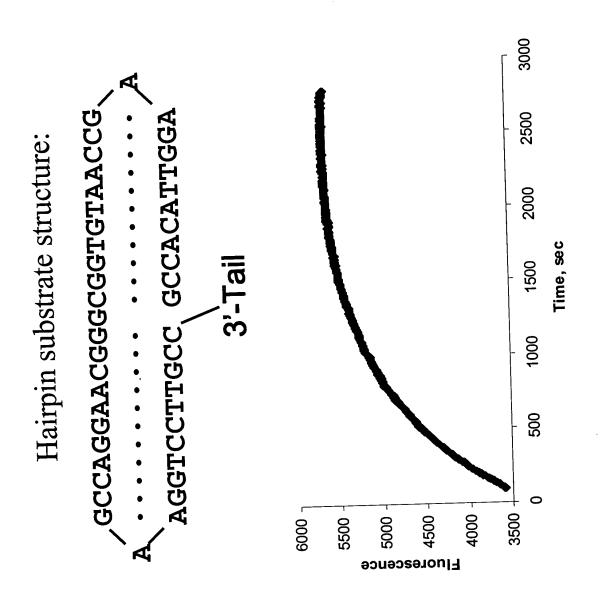
8

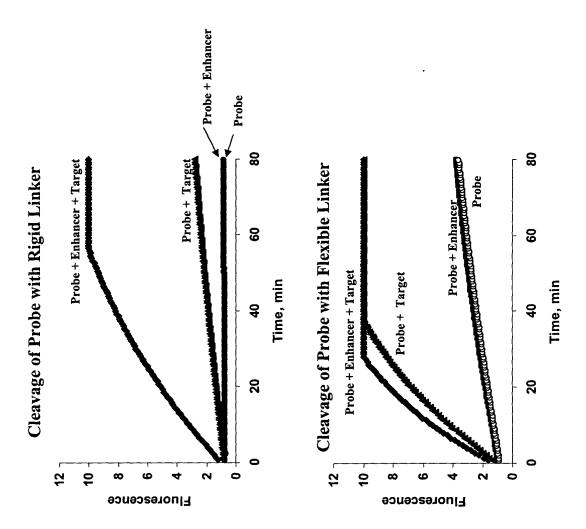
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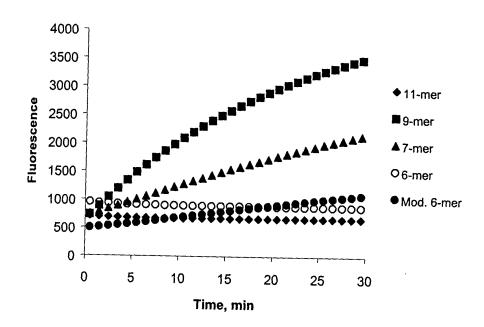
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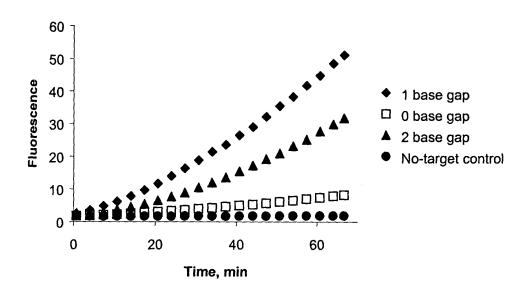
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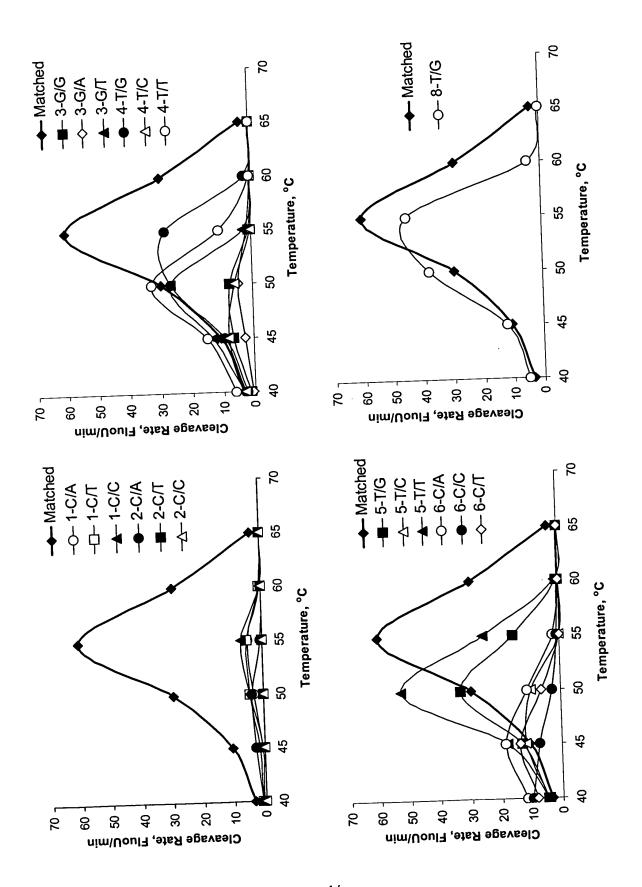


Figure 14

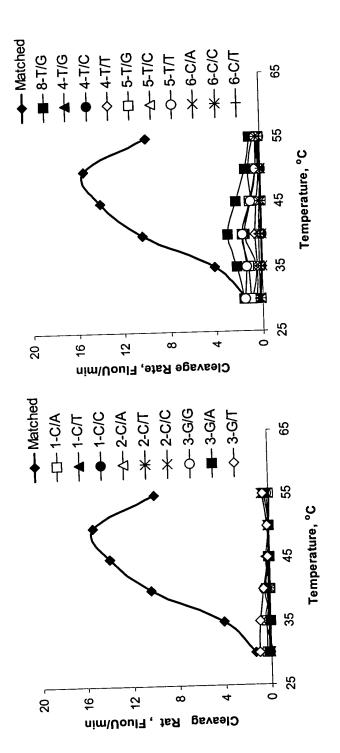


Figure 15

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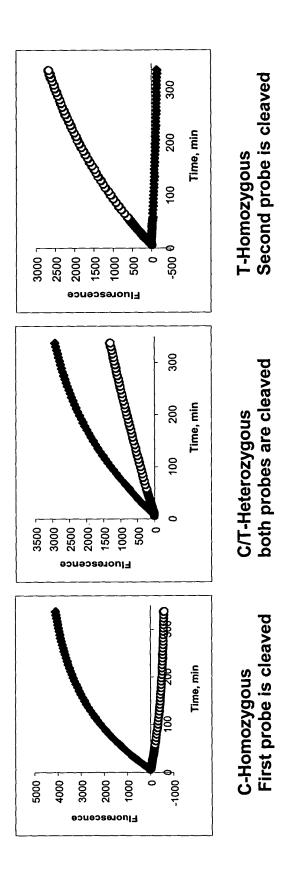


Figure 16

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